**JavaScript console Methods with Examples**

**1. console.log()**

Used to print general output to the console.

javascript

console.log("This is a log message");

**2. console.error()**

Displays an error message.

javascript

console.error("This is an error message");

**3. console.warn()**

Prints a warning message.

javascript

console.warn("This is a warning");

**4. console.info()**

Similar to console.log() but used for informational messages.

javascript

console.info("This is some info");

**5. console.debug()**

For debugging messages (may not show unless developer tools allow it).

javascript

console.debug("Debugging info");

**6. console.table()**

Displays tabular data in a table format.

javascript

const users = [

{ name: "Alice", age: 25 },

{ name: "Bob", age: 30 }

];

console.table(users);

**7. console.dir()**

Displays an interactive list of the properties of a specified object.

javascript

const obj = { a: 1, b: 2 };

console.dir(obj);

**8. console.group() and console.groupEnd()**

Creates an indented group of log messages.

javascript

console.group("User Info");

console.log("Name: Alice");

console.log("Age: 25");

console.groupEnd();

**9. console.groupCollapsed()**

Creates a collapsed group by default.

javascript

console.groupCollapsed("Details");

console.log("Hidden unless expanded");

console.groupEnd();

**10. console.count()**

Logs how many times it has been called with a particular label.

javascript

function greet() {

console.count("greet called");

}

greet();

greet();

**11. console.clear()**

Clears the console.

javascript

console.clear();

**12. console.time() and console.timeEnd()**

Measures how long an operation takes.

javascript

console.time("LoopTime");

for (let i = 0; i < 1000000; i++) {}

console.timeEnd("LoopTime");

**13. console.assert()**

Logs a message if an assertion fails.

javascript

console.assert(1 === 2, "Assertion failed: 1 is not equal to 2");

**14. console.trace()**

Shows the stack trace of function calls leading to this point.

javascript

function a() { b(); }

function b() { c(); }

function c() { console.trace("Trace here"); }

a();